Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No: KMTH/C-Agg/98-11/2019-20	Date	15.11.2019

TEST REPORT ON COARSE AGGREGATE

Name of Client	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Name of the Project*	Construction of RCC Drain & Culverts at Adithya Nagar, Chandrappa Layout And Surroundings, Yelahanka Satellite Town Sub Division.
Job Code No	003-02-000067
Client's letter dated	13.11.2019
Source of Sample	Supplied by the Client
No. of Sample*	Coarse Aggregate - 20mm
Date of Testing	14.11.2019
Technical Reference	IS: 2386 (Part I)– 1963 IS: 383 – 2016

Gradation of 20mm Aggregate

20mm	Weight of Sample in gm		5000		IS : 2386(Part-I) RA 2016		Remarks
Sieve No	Wt of soil	% tage retained	Cumulative % retained	% tage finer	Single Size	Graded Size	
40	0	0.00	0.00	100.00	100	100	Sample conforms to IS: Stipulation for Single size Aggregate of size 20mm.
20	342	6.84	6.84	93.16	85-100	90 to 100	
10	4362	87.24	94.08	5.92	0 to 20	25 to 55	
4.75	278	5.56	99.64	0.36	0 to 5	0 to 10	

* As furnished by the Client.

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked By
Nagaraj K S

Approved By
Narayanswamy B

Karnataka Material Test House Pvt. Ltd. Bangalore

.....End of Report.....

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ಬ.ಬ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೫೬

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No: KMTH/ C-Agg/99-11/2019-20	Date	15.11.2019

TEST REPORT ON COARSE AGGREGATE

Name of Client	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64
Name of Agency	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Name of the Project*	Construction of RCC Drain & Culverts at Adithya Nagar, Chandrappa Layout And Surroundings, Yelahanka Satellite Town Sub Division.
Job Code No	003-02-000067
Client's letter dated	13.11.2019
Source of Sample	Supplied by the Client
No. of Sample*	Coarse Aggregate - 20mm
Date of Testing	14.11.2019
Technical Reference	IS: 2386 (Part I)– 1963 IS: 383 – 2016

Gradation of 40mm Aggregate

40mm	Weight of Sample in gm		5000		IS : 2386(Part-I) RA 2016		Remarks
Sieve No	Wt of soil	% tage retained	Cumulative % retained	% tage finer	Single Size	Graded Size	
63	0	0.00	0.00	100	100	100	Sample conforms to IS: Stipulation for Single size Aggregate of size 40mm.
40	586	11.72	11.72	88.28	85-100	90 to 100	
20	3682	73.64	85.36	14.64	0 to 20	30 to 70	
10	324	6.48	91.84	8.16	0 to 5	10 to 25	
4.75	6.8	0.14	91.98	8.02	-	0 to 5	

* As furnished by the Client.

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked By
Nagaraj K S

Approved By
Narayanswamy B

Material Test House Pvt Ltd. Bangalore

.....End of Report.....

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No: KMTH/M-Sand/98-11/2019-20	Date	15.11.2019

TEST REPORT ON FINE AGGREGATES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Name of the Project*	Construction of RCC Drain & Culverts at Adithya Nagar, Chandrappa Layout And Surroundings, Yelahanka Satellite Town Sub Division.
Job Code No	003-02-000067
Client's letter dated	13.11.2019
Source of Sample	Supplied by the Client
No. of Sample*	Fine Aggregate- M-Sand
Date of Testing	14.11.2019
Technical Reference	IS: 2386 (Part I)– 1963 , IS: 383 – 2016

Gradation of Fine Aggregate-M-Sand

Sieve No	Wt of soil	% tage retained	Cumulative % retained	% tage finer	Percentage passing for Zone I	Zone II	Zone III	Zone IV	Remarks
10	0	0	0	100	100	100	100	100	
4.75	0	0.00	0.00	100.00	90 – 100	90 – 100	90 – 100	90-100	
2.36	146.2	14.62	14.62	85.38	60 – 95	75 – 100	85 – 100	95-100	Falls in **Zone – 1** as per Table 4 of IS-383 – 2016
1.18	312.6	31.26	45.88	54.12	30 – 70	55 – 90	75 – 100	90-100	
0.6	248.4	24.84	70.72	29.28	15 – 34	35 – 59	60 – 79	80-100	
0.3	206.8	20.68	91.40	8.60	5 – 20	8 – 30	12 – 40	15-50	
0.15	69	2.90	94.30	5.70	0 – 10	0 – 10	0 – 10	0-15	
Silt content				5.70	Shall not be more than 15%				Passes the requirements

* As furnished by the Client.

Note: The above Sample satisfies the requirement of Zone – 1 as per Table 4 of IS-383 – 2016

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked By
Nagaraj K.S

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Approved By
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No: KMTH/Cement/98-12/2019-20			Date	26.11.2019
PHYSICAL TEST REPORT ON CEMENT				
Name of Client	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.			
Name of Agency	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.			
Name of the Project*	Construction of RCC Drain & Culverts at Adithya Nagar, Chandrappa Layout And Surroundings, Yelahanka Satellite Town Sub Division.			
Job Code No	003-20-000067			
Letter dated	23.11.2019			
Sample Received on	Supplied by the Client			
Source of Sample	Supplied by the Client			
Date of Testing	25.11.2019			
Type of cement & Brand of Cement*	*OPC Cement –ACC-43 Grade*			
Technical Reference	IS: 403(Part I–VI) 1988 (Reaffirmed–2000) & IS: 8112-1989			
Physical Properties				
Sl. No.	Test Conducted	Results	IS: 8112-1989 Stipulation	Remarks
1	Normal consistency in %	23.4	Not specified	-
2	Initial setting time in minutes	198	Shall not be less than 30 minutes	P
3	Final setting time in minutes	298	Shall not be more than 600 minutes	P

*As Furnished by the client

F: Fails IS requirements

P : Passes IS requirement

TTC : Test to be conducted

For Karnataka Material Test House Pvt. Ltd.,

Prepared & Checked by
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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No: KMTH/Steel/125-12/2019-20	Date of issue	06.12.2019

PHYSICAL TEST REPORT ON STEEL Reinforcement BARS

Name of Client	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Name of the Project*	Construction of RCC Drain & Culverts at Adithya Nagar, Chandrappa Layout And Surroundings, Yelahanka Satellite Town Sub Division.
Job Code No	003-20-000067
Source of Sample	Supplied by Client
Sample Received on	04.12.2019
Nature of Sample*	Steel – 3Nos.(8,10,12mm)
Grade of Steel*	Fe-500 TMT Bars
Technical Reference	IS: 1786 – 2008 & IS: 1608–2005

Tensile Test

Sl No.	Grade of Steel	Dia (mm)	Weight / unit length (kg/m)	0.2% proof Stress (N/mm2)	Tensile Strength (N/mm2)	Percentage Elongation (on 5.65 √AG.L)	Remarks
1	Fe-500 TMT Bars	8	0.398	580.622	670.458	20.226	Passes
2		10	0.589	325.624	716.891	16.844	Passes
3		12	0.848	639.462	720.426	13.623	Passes

Bend Test

Sl. No.	Dia (mm)	Mandrel diameter	Angle of bend	Observations
1	8	4 dia	180°	No cracks observed. Passes the test.
2	10	4 dia	180°	No cracks observed. Passes the test.
3	12	4 dia	180°	No cracks observed. Passes the test.

Re-bend Test

Sl. No.	Dia (mm)	Mandrel diameter	Observations
1	8	5 dia	No cracks observed. Passes the test.
2	10	5 dia	No cracks observed. Passes the test.
3	12	5 dia	No cracks observed. Passes the test.

* As furnished by the Client

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

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Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No. : KMTH/Cubes-/2019-20	Date of issue	30.11.2019

TEST RESULTS ON CONCRETE CUBES

Name of Client and Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of the Agency	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Name of the Project*	Construction of RCC Drain & Culverts at Adithya Nagar, Chandrappa Layout And Surroundings Areas in ward No.03, Yelahanka Satellite Town Sub Division.
Job Code No	003-20-000067
Letter Dated	30.11.2019
Source of Sample	Supplied by the Client
Dimension of Specimens	150.00mm x 151.00mm x 151.00mm 150.00mm x 151.50mm x 150.00mm 150.20mm x 150.00mm x 150.00mm
Grade of Concrete *	M-10
Chainage in Meters	Ch.0.00 - 23.20 1st main

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete cube specimens, supplied by the client and the results are tabulated here below:

Sl. No	Cubes pertaining to the concrete cast at* (Details of structural member identification)	Date of casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm^2)	Weight of Specimen (gm)	Load in KN	Compressive Strength In N/mm^2*
1	PCC Concrete (Drains)	23.11.2019	30.11.2019	07 Days	22801	8224	233.93	10.26
2		23.11.2019	30.11.2019		22650	8312	223.32	9.86
3		23.11.2019	30.11.2019		22500	8298	264.6	11.76

1 N/Sq.mm = 10Kg/Sq.cm. (Approx.) *As Furnished by the client

**Based on the data furnished by the client

Note: A minimum of three cube specimens shall be supplied for testing as per IS: 516-1959.

For Karnataka Material Test House Pvt. Ltd

Prepared & Checked by
Nagaraj K S

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No. : KMTH/Cubes-/2019-20	Date of issue	21.12.2019

TEST RESULTS ON CONCRETE CUBES

Name of Client and Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of the Agency	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Name of the Project*	Construction of RCC Drain & Culverts at Adithya Nagar, Chandrappa Layout And Surroundings Areas in ward No.03, Yelahanka Satellite Town Sub Division.
Job Code No	003-20-000067
Letter Dated	21.12.2019
Source of Sample	Supplied by the Client
Dimension of Specimens	150.00mm x 151.00mm x 150.00mm 150.00mm x 151.50mm x 150.00mm 150.20mm x 150.00mm x 150.00mm
Grade of Concrete *	M-10
Chainage in Meters	Ch.0.00 - 23.20 1st main

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete cube specimens, supplied by the client and the results are tabulated here below:

Sl. No	Cubes pertaining to the concrete cast at* (Details of structural member identification)	Date of casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm^2)	Weight of Specimen (gm)	Load in KN	Compressive Strength In N/mm^2*
1	PCC Concrete (Drains)	23.11.2019	21.12.2019	28 Days	22500	8100	342.90	15.24
2		23.11.2019	21.12.2019		22650	8213	322.9	14.26
3		23.11.2019	21.12.2019		22500	8150	354.15	15.74

1 N/Sq.mm = 10Kg/Sq.cm. (Approx.). *As Furnished by the client

**Based on the data furnished by the client

Note: A minimum of three cube specimens shall be supplied for testing as per IS: 516-1959.

For Karnataka Material Test House Pvt. Ltd

Prepared & Checked by
Nagaraj K S

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Narayanswamy B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No. : KMTH/Cubes-100/2019-20	Date of issue	13.12.2019

TEST RESULTS ON CONCRETE CUBES

Name of Client and Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of the Agency	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Name of the Project*	Construction of RCC Drain & Culverts at Adithya Nagar, Chandrappa Layout And Surroundings Areas in ward No.03, Yelahanka Satellite Town Sub Division.
Job Code No	003-20-000067
Letter Dated	12.12.2019
Source of Sample	Supplied by the Client
Dimension of Specimens	151.88mm X 152.42mm X 152.01mm 151.13mm X 149.64mm X 148.77mm 148.96mm X 149.03mm X 149.98mm
Grade of Concrete *	M-20
Chainage in Meters	Ch : 0.0 to 38.7 - 1st main LHS

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete cube specimens, supplied by the client and the results are tabulated here below:

Sl. No	Cubes pertaining to the concrete cast at* (Details of structural member identification)	Date of casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm^2)	Weight of Specimen (gm)	Load in KN	Compressive Strength In N/mm^2*
1	Raft Concrete (Drains)	05.12.2019	12.12.2019	07 Days	23169.36	8476	437.89	18.90
2		05.12.2019	12.12.2019		22261.94	8390	399.80	17.96
3		05.12.2019	12.12.2019		22351.51	8254	414.38	18.54

1 N/Sq.mm = 10Kg/Sq.cm. (Approx.)

*As Furnished by the client

**Based on the data furnished by the client

Note: A minimum of three cube specimens shall be supplied for testing as per IS: 516-1959.

For Karnataka Material Test House Pvt. Ltd

Prepared & checked by
Nagaraj K.S

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No. : KMTH/Cubes-101/2019-20	Date of issue	02.01.2020

TEST RESULTS ON CONCRETE CUBES

Name of Client and Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of the Agency	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Name of the Project*	Construction of RCC Drain & Culverts at Adithya Nagar, Chandrappa Layout And Surroundings Areas in ward No.03, Yelahanka Satellite Town Sub Division.
Job Code No	003-20-000067
Letter Dated	01.01.2020
Sample Received	01.01.2020
Source of Sample	Supplied by the Client
Dimension of Specimens	152.86mm X 151.42mm X 151.63mm 150.34mm X 151.85mm X 151.48mm 151.22mm X 151.44mm X 150.80mm
Grade of Concrete *	M-20
Chainage in Meters	**Ch. 0.0 to 38.7 - 1st main LHS**

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete cube specimens, supplied by the client and the results are tabulated here below.

Sl. No	Cubes pertaining to the concrete cast at* (Details of structural member identification)	Date of casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm^2)	Weight of Specimen (gm)	Load in KN	Compressive Strength In N/mm^2*
1	Raft Concrete (Drains)	05.12.2019	01.01.2020	28 Days	22959.81	8138	525.76	22.90
2		05.12.2019	01.01.2020		23002.23	8210	540.54	23.50
3		05.12.2019	01.01.2020		22837.15	8152	545.34	23.88

1 N/Sq.mm = 10Kg/Sq cm. (Approx.)

*As Furnished by the client

**Based on the data furnished by the client

Note: A minimum of three cube specimens shall be supplied for testing as per IS: 516-1959.

For Karnataka Material Test House Pvt. Ltd

Prepared & Checked by
Nagaraj K S

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End of report

Approved by
Narayanswamy B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No. : KMTH/Cubes--102/2019-20	Date of issue	25.12.2019

TEST RESULTS ON CONCRETE CUBES

Name of Client and Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of the Agency	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Name of the Project*	Construction of RCC Drain & Culverts at Adithya Nagar, Chandrappa Layout And Surroundings Areas in ward No.03, Yelahanka Satellite Town Sub Division.
Job Code No	003-20-000067
Letter Dated	24.12.2019
Source of Sample	Supplied by the Client
Dimension of Specimens	150.29mm X 152.95mm X 152.17mm 151.52mm X 151.53mm X 151.74mm 151.94mm X 152.98mm X 152.87mm
Grade of Concrete *	M-20
Chainage in Meters	**Ch: 0.0 to 25.2m - 2nd main LHS**

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete cube specimens, supplied by the client and the results are tabulated here below:

Sl. No	Cubes pertaining to the concrete cast at* (Details of structural member identification)	Date of casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm^2)	Weight of Specimen (gm)	Load in KN	Compressive Strength In N/mm^2*
1	Drainage Side Wall Concrete	17.12.2019	24.12.2019	07 Days	23274.40	8422	418.47	17.98
2		17.12.2019	24.12.2019		22993.16	8472	421.23	18.32
3		17.12.2019	24.12.2019		23386.05	8418	426.09	18.22

1 N/Sq.mm = 10Kg/Sq cm. (Approx.)

*As Furnished by the client

**Based on the data furnished by the client

Note: A minimum of three cube specimens shall be supplied for testing as per IS: 516-1959.

For Karnataka Material Test House Pvt. Ltd

Prepared & Checked by
Nagaraj K S

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Approved By
Narayanswamy B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No : KMTH/CCKerbs/125/2019-20	Date of Issue	31.01.2020

TEST RESULTS ON CEMENT CONCRETE KERBS SAMPLES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	Karnataka Material Test House Pvt Ltd , Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of the Project*	Construction of RCC Drain & Culverts at Adithya Nagar, Chandrappa Layout And Surroundings, Yelahanka Satellite Town Sub Division.
Work order Number	BBMP/EE/YNK.D/W.O/230/2019-20
Job Code No	003-20-000067
Sample Received on	25.01.2020
Source of Sample	Supplied by the Client
Number of Specimens*	3 No`s Cement Concrete Kerbs
Size & Shape of Sample	Kerbs Length -450mm, Height-400mm,Width-(top-114+bottom-165)mm
Date of Testing	27.01.2020 to 30.01.2020

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq.mm	Load KN	Comp. Strength. N/Sq mm	C.F H/D x 0.11 + 0.78	C.C.F N/Sq mm	E.C.S.C N/Sq mm	Avg. N/Sq mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
1	S-01	94.79	159.08	1.68	7053	118.2	16.76	0.96	16.16	20.21	21	2.63	0.00112	2343.93
2	S-02	94.95	162.04	1.71	7077	126.8	17.92	0.97	17.34	21.67		2.69	0.00115	2342.20
3	S-03	95.01	157.03	1.65	7086	130.0	18.35	0.96	17.65	22.06		2.59	0.00111	2327.60

*As furnished by the Client

Remarks:

For Karnataka Material Test House Pvt. Ltd.,

Prepared & Checked by
Nagaraja k S

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No : KMTH/Slabs/125/2019-20	Date of Issue	28.01.2020

TEST RESULTS ON 100MM THICK CEMENT CONCRETE SLABS SAMPLES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of the Project*	Construction of RCC Drain & Culverts at Adithya Nagar, Chandrappa Layout And Surroundings, Yelahanka Satellite Town Sub Division.
Work order Number	BBMP/EE/YNK.D/W.O/230/2019-20
Job Code No	003-20-000067
Sample Received on	23.01.2020
Source of Sample	Supplied by the Client
Number of Specimens*	3 No`s Cement Concrete Slabs
Size & Shape of Sample	slab Length -920mm, Height-100mm,Width600mm
Date of Testing	24.01.2020 to 27.01.2020

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq.mm	Load KN	Comp. Strength. N/Sq mm	C.F. H/D x 0.11 + 0.78	C.C.F N/Sq.mm	E.C.S.C N/Sq.mm	Avg. N/Sq.mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
1	S-01	95.00	190.00	2.00	7085	135.2	19.08	1.00	19.08	23.85	23.00	2.7860	0.00135	2069.72
2	S-02	95.00	188.00	1.98	7085	125.8	17.76	1.00	17.72	22.14		2.8120	0.00133	2111.25
3	S-03	95.01	191.00	2.01	7086	130.2	18.37	1.00	18.39	22.99		2.6480	0.00135	1956.48

*As furnished by the Client

Remarks:

For Karnataka Material Test House Pvt. Ltd.,

Prepared & Checked by
Nagaraja K S

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No : KMTH/slabs/125/2019-20	Date of Issue	29.01.2020

TEST RESULTS ON 250MM THICK CEMENT CONCRETE SLABS SAMPLES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of the Project*	Construction of RCC Drain & Culverts at Adithya Nagar, Chandrappa Layout And Surroundings, Yelahanka Satellite Town Sub Division.
Work order Number	BBMP/EE/YNK.D/W.O/230/2019-20
Job Code No	003-20-000067
Sample Received on	25.01.2020
Source of Sample	Supplied by the Client
Number of Specimens*	3 No`s Cement Concrete Slabs
Size & Shape of Sample	slab Length -1500mm, Height-250mm,Width460mm
Date of Testing	26.01.2020 to 28.01.2020

Compressive Strength test as per the guidelines of IS: 516-1959.has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq mm	Load KN	Comp. Strength. N/Sq mm	C.F. H/D x 0.11 + 0.78	C.C.F N/Sq mm	E.C.S.C N/Sq mm	Avg. N/Sq mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
1	S-01	95.40	199.00	1.98	7085	270.2	36.4	1.00	36.40	45.50	45.63	2.9890	0.00135	2220.5
2	S-02	95.00	192.00	2.25	7085	251.6	34.8	1.00	34.72	43.40		2.9562	0.00133	2219.5
3	S-03	95.20	194.00	2.13	7086	260.4	38.36	1.00	38.40	48.00		2.8963	0.00135	2139.9

*As furnished by the Client

Remarks:

For Karnataka Material Test House Pvt. Ltd.,

Prepared & Checked by
Nagaraja K S

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No:-KMTH/SB/122-01/2019-20	Date of issue	10.01.2020

TEST RESULTS OF SOLID CONCRETE BLOCKS

Name of Client And Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of the Agency	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettihalli, Bengaluru-560094
Name of the Project*	Construction of RCC Drain & Culverts at Adithya Nagar, Chandrappa Layout And Surroundings Areas in ward No.03, Yelahanka Satellite Town Sub Division.
Work order Number	BBMP/EE/YNK.D/W.O/230/2019-20
Job Code No	003-20-000067
Letter Dated	09.01.2020
Source of Sample	Supplied by the Client

Sl. No.	Identification of Sample	Dimension Measured mm			Wt of sample in g	Loaded area (Gross area) LxB in mm2	Max failure Load KN	Ind. Compressive Strength N/mm2	Average Compressive Strength N/mm2
		L	B	D					
COMMPRESSIVE STRENGTH									
4" Solid Block									
1	S-01	400	200	100	14935	40000	150	3.75	3.50
2	S-02	400	200	100	15420	40000	125	3.13	
3	S-03	400	200	100	15180	40000	145	3.63	

As furnished by the client.

Remarks: Samples confirms to the requirements of IS-2185 (Part-1) 2005 Table 2.0, Clause 5.1, 5.2 & 9.4) Page No-4.

For Karnataka Material Test House Pvt ltd,

Prepared &Checked by
Nagaraj K S

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